OIPE #26

Serial Number: _09/035,708 A_

CRF Processing Date: _____
Edited by: _____
Verified by: _____ (STIC sta

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

**ENTERED**

☐ Edited a formal error in the Current Application Data section, specifically: _____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

**RECEIVED**

☐ Inserted colons after headings/subheadings. Headings edited included: _____

JUL 2 7 2001

☐ Deleted extra, invalid, headings used by an applicant, specifically: _____

TECH CENTER 1600/2900

☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically: _____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically: _____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☑ Other: _Corrected publication information header errors._

_____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING          DATE: 07/11/2001
PATENT APPLICATION:  US/09/035,708A     TIME: 12:57:20

Input Set : **A:\Cpg.pto**
Output Set: **N:\CRF3\07112001\I035708A.raw**

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 3 <110> APPLICANT: University of Cincinnati
 5 <120> TITLE OF INVENTION: METHOD OF DETECTING AXONAL DAMAGE, ASSOCIATED DISEASE
 6       STATES, AND RELATED MONOCLONAL ANTIBODIES AND PROTEIN
 7       CONTROLS THEREFOR
 9 <130> FILE REFERENCE: 1259-064
11 <140> CURRENT APPLICATION NUMBER: 09/035,708A
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C--> **12 <141> CURRENT FILING DATE: 2001-05-11**

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14 <160> NUMBER OF SEQ ID NOS: 1
16 <170> SOFTWARE: PatentIn Ver. 2.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 441
20 <212> TYPE: PRT
21 <213> ORGANISM: human clone htau40 isoform reduced
23 <300> PUBLICATION INFORMATION:
24 <301> AUTHORs: Goedert, M.
25 <302> TITLE: Multiple Isoforms of Human Microtubule-Associated Protein Tau:
26       Sequences and Localization in Neurofibrillary Tangles of Alzheimer's
27       Disease
28 <303> JOURNAL: Neuron
29 <304> VOLUME: 3
30 <306> PAGES: 519-526
31 <307> DATE: OCT-1989
33 <400> SEQUENCE: 1
34 Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
35  1                   5                  10                  15
37 Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
38              20                  25                  30
40 Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
41          35                  40                  45
43 Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
44      50                  55                  60
46 Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
47  65                  70                  75                  80
49 Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
50                  85                  90                  95
52 Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
53              100                 105                 110
55 Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
56          115                 120                 125
58 Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
59      130                 135                 140
61 Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
62 145                 150                 155                 160
64 Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
65                  165                 170                 175
67 Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
68              180                 185                 190
```

**RAW SEQUENCE LISTING**      DATE: 07/11/2001
PATENT APPLICATION:  **US/09/035,708A**      TIME: 12:57:20

Input Set : **A:\Cpg.pto**
Output Set: **N:\CRF3\07112001\I035708A.raw**

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70  Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
71       .  195             200             205
73  Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys
74       210             215             220
76  Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
77  225             230             .   235                 240
79  Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val
80               245             250                 255
82  Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly
83               260             265             270
85  Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln
86       275             280             .   285
88  Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly
89       290             295             300
91  Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser
92  305             310             315                 320
94  Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln
95               325             330             335
97  Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser
98               340             345             350
100 Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
101             355             360             365
103 Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala
104       370             375             380
106 Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val Val Ser
107 385             390             395                 400
109 Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser
110             405             410             415
112 Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp Glu Val
113             420             425             430
115 Ser Ala Ser Leu Ala Lys Gln Gly Leu
116       435             440
```

VERIFICATION SUMMARY                    DATE: 07/11/2001
PATENT APPLICATION:  US/09/035,708A     TIME: 12:57:21

Input Set : A:\Cpg.pto
Output Set: N:\CRF3\07112001\I035708A.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

OIPE

Does Not Comply
Corrected Diskette Needed

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      3 <110> APPLICANT: University of Cincinnati
W-->  4 <120> TITLE OF INVENTION: METHOD OF DETECTING AXONAL DAMAGE, ASSOCIATED DISEASE
W-->  5       STATES, AND RELATED MONOCLONAL ANTIBODIES AND PROTEIN
W-->  6       CONTROLS THEREFOR
W-->  7 <130> FILE REFERENCE: 1259-064
W-->  8 <140> CURRENT APPLICATION NUMBER: 09/035,708
C-->  9 <141> CURRENT FILING DATE: 2001-05-11
W--> 10 <160> NUMBER OF SEQ ID: 1
     11 <170> SOFTWARE: PatentIn Ver. 2.1
W--> 12 <210> SEQ ID NO: 1
     13 <211> LENGTH: 441
     14 <212> TYPE: PRT
     15 <213> ORGANISM: human clone htau40 isoform reduced
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     17 <303> JOURNAL: Goedert, M.
W--> 18 <302> TITLE: Multiple Isoforms of Human Microtubule-Associated Protein Tau:
     19       Sequences and Localization in Neurofibrillary Tangles of Alzheimer's
     20       Disease
     21 <303> JOURNAL: Neuron
     22 <304> VOLUME: 3
     23 <306> PAGES: 519-526
     24 <307> DATE: OCT-1989
W--> 25 <400> SEQUENCE: 1
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     27  1               5                  10                  15
     29 Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
     30              20                  25                  30
     32 Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
     33          35                  40                  45
     35 Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
     36        50                  55                  60
     38 Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
     39 65                  70                  75                  80
     41 Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
     42                  85                  90                  95
     44 Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
     45              100                 105                 110
     47 Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
     48          115                 120                 125
     50 Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
     51        130                 135                 140
     53 Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
     54 145                 150                 155                 160
     56 Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
     57                  165                 170                 175
     59 Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
     60                  180                 185                 190
```

Handwritten annotations:
- "No response for <300>. It is a blank line feature."
- "<301> Authors"

```
62 Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
63         195             200             205
65 Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys
66     210             215             220
68 Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
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71 Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val
72             245             250             255
74 Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly
75         260             265             270
77 Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln
78         275             280             285
80 Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly
81     290             295                 300
83 Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser
84 305             310             315             320
86 Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln
87         325             330             335
89 Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser
90         340             345             350
92 Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
93         355             360             365
95 Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala
96     370             375             380
98 Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val Val Ser
99 385             390             395             400
101 Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser
102             405             410             415
104 Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp Glu Val
105         420             425             430
107 Ser Ala Ser Leu Ala Lys Gln Gly Leu
108         435             440
```

**VERIFICATION SUMMARY**
PATENT APPLICATION:  US/09/035,708

DATE: 06/14/2001
TIME: 12:41:10

Input Set : **A:\PTO.txt**
Output Set: **N:\CRF3\06142001\I035708.raw**

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L:4  M:283 W: Missing Blank Line separator, <120> field identifier
L:7  M:283 W: Missing Blank Line separator, <130> field identifier
L:8  M:283 W: Missing Blank Line separator, <140> field identifier
L:9  M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:10 M:283 W: Missing Blank Line separator, <160> field identifier
L:12 M:283 W: Missing Blank Line separator, <210> field identifier
L:16 M:283 W: Missing Blank Line separator, <300> field identifier
L:16 M:256 W: Invalid Numeric Header Field, <300> has non-blank data
L:18 M:281 W: Numeric Fields not Ordered, <302> Sort in ascending order!
L:25 M:283 W: Missing Blank Line separator, <400> field identifier
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